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September 10, 1957

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Re: Contract RD-79, T.O. 7

Dear [REDACTED]

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This letter, together with attachments, constitutes our proposal for increased scope involving Phase B and E of T.O. 7 of Contract RD-79. The estimated cost, price and fixed fee are as follows:

	Estimated Cost	Fixed Fee	Estimated Price
Phase B	[REDACTED]	[REDACTED]	\$6,486.00
Phase E			5,805.00

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It is requested that the contract date be extended to December 15, 1957 to permit completion of the proposed work. This date is predicated upon receiving transistor amplifiers from the client on or prior to October 1, 1957, and additional GFE equipment as follows:

Hewlett-Packard Generators Model 608C

612A

614A

618B/620A

In the event during system tests, the system will not operate due to cables built to client's specifications or to GFE operation, contractor cannot assume responsibility for repair of these items. If the design is fundamentally wrong, contractor will attempt to ascertain the correction or change required and will furnish this information to the client

Yours very truly,

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DOC	REV	DATE	BY
ORIG COMP	✓	10/1/57	TYPE
ORIG CLASS	PAGES	REV CLASS	
JUST	NEXT REV	AUTH: MR 10-2	

By [REDACTED]

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COST BREAKDOWN*
PROPOSED CHANGE IN SCOPE OF PHASE B
OF TASK ORDER 7
SEPTEMBER 10, 1957

DIRECT LABOR

Engineer	140 hrs.
Engineering Assistant	360 hrs.
Engineering Assistant	300 hrs.
Draftsman	40 hrs.

TOTAL DIRECT LABOR**OVERHEAD -** **TOTAL DIRECT LABOR AND OVERHEAD****OTHER DIRECT COSTS****Reproduction and Photographs****TOTAL ESTIMATED COST****FEE -** **TOTAL ESTIMATED PRICE****\$6,486.00***** Figures rounded to nearest dollar**

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COST BREAKDOWN*
PROPOSED PHASE E TO
TASK ORDER 7
SEPTEMBER 10, 1957

DIRECT LABOR

Engineer 40 hrs.
Engineer 300 hrs.
Draftsman 300 hrs.

TOTAL DIRECT LABOR**OVERHEAD -****TOTAL DIRECT LABOR AND OVERHEAD****OTHER DIRECT COSTS****Reproduction****TOTAL ESTIMATED COST****FEE -****TOTAL ESTIMATED PRICE****\$5,805.00***** Figures rounded to nearest dollar**~~SECRET~~

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TECHNICAL INFORMATION MEMORANDUM
CHANGE IN SCOPE OF PHASE B OF
TASK ORDER 7
SEPTEMBER 10, 1957

The increased scope of the work under Phase B consists of two general areas of effort:

1. Determination of Filter-Detector Combination Bandpass Characteristics,
2. Amplification of System Tests

In the course of development and production of the CS-3, and CS-3A systems, changes were made in requirements necessitating changes in the systems. It now seems desirable to furnish a more thorough system test than originally anticipated.

1. Determination of Filter-Detector Combination Bandpass Characteristics for Bands A, B, C, and D.

Under Task Order 5, performed measurements on filter-detector bandpass characteristics. On the basis of results, it was decided to use bias on the detector. With bias the bandpass characteristic will be different, and new measurements will be required.

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One filter for each band will be measured in combination with one crystal detector. Ten frequencies per band will be measured. The data will be submitted in graph form. In addition, two filters will be spot checked with two different crystal detectors.

2. Amplification of System Tests

The CS-3A system will be set up in the laboratory utilizing cables constructed for the system at their maximum length. The tests to be performed will be comprehensive compared to those called for under the original scope of Phase B.

Signal inputs will be applied directly to the filters for bands A, B, C, and D, using GFE signal generators listed in the attached letter. For band E, the generator will feed the detector assembly as no filter exists. Sensitivity measurements will be made to determine 10% and 100% recording level requirements (recording level voltages to be furnished by the client).

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Two filters of each type, with each of two different detector assemblies will be measured at three frequencies per band (10% above low frequency cut off, center frequency, and 10% below high frequency cutoff). For band E, measurements will be made as above with two detector assemblies feeding the generator directly into the detector. One filter detector combination will be checked at low, center, and high DC power voltage.

Tests will be made to determine if, in conjunction with the system, the VA-5 amplifier performs to its specifications. For this test, between six and ten amplifiers will be investigated to assure results based on sufficient sampling.

The system will be tried with at least two recorders, two different power supplies, and two activity amplifiers. A suitable way of performing this will be to freeze all variables, replace the equipment, then check to see if there is a variation in operation.

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The complete system test will be made using half of a dual rack assembly. Contractor feels that no interference problems will arise when the other half of the rack is placed into operation.

In general, all tests will be made with a 2 usec pulse at 1000 cps, generators permitting. Spot checks will be made at rates of 30 cps. and 6000cps.

The CS-3 system is identical to the CS-3A except in cabling and in the number of power supplies. The use of two supplies versus one should not affect sensitivity results. For this reason, the complete tests will not be run on the CS-3 system. The system will be set up and spot measurements made to determine if the system operates the same as the CS-3A system.

The Test Bench Junction Box System will be tested in the same manner as the CS-3 System.

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TECHNICAL INFORMATION MEMORANDUM
FOR PROPOSED PHASE E
OF TASK ORDER 7
SEPTEMBER 10, 1957

[] propose to prepare an installation manual for the CS-3 and CS-3A (Dual and Single Rack). A preliminary outline for the manual is attached.

[] have been designing and manufacturing components of the CS-3 and associated systems. However, the company has been involved only with component parts of the system. At this time, it seems advisable for []

[] to amplify the scope of the work to prepare interconnecting block diagrams and schematics for the systems, and to prepare information for the installation and test of the systems. Changes in the system during the design and manufacturing stages have made obsolete many of the drawings and information prepared by the client. In addition, information is lacking on the actual installation of the operating systems and on the use of the Test Bench Junction Box System.

It is also proposed that [] check existing client drawings to insure that they include changes made in the system after preparation of the drawings.

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The preparation of the installation manual will be patterned after the attached outline. Extensive use will be made of drawings and photographs to enable the user to most expeditiously install and test the equipment.

The section of the manual on the installation of the CS-3A system will be more comprehensive than the section on the CS-3 system. There are only a few basic differences between the systems and for this reasons, much of the information on the CS-3A will be applicable to the CS-3 system.

A section will be included showing the interconnection of the Test Bench Junction Box System. An explanation of the capabilities of the Test Bench Junction Box and its instrumentation will be given.

[] has prepared drafting information under the existing contract sufficient to permit reordering of any item constructed by [] The information is complete and will permit construction by any company. However, the drafting information is on particular items and does not cover assembly of any two items (i.e., a cable and a panel.) [] proposes to work with the clients representative to supply additional information required for reordering of system assemblies.

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All material furnished will be in the form of one copy
which may be reproduced, and one blue line copy.

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OUTLINE OF INFORMATION TO BE
INCLUDED IN INSTALLATION MANUAL

I. CS-3A System

- A. Description of System**
 - 1. Electrical Functions
 - 2. Physical Layout
- B. Equipment Lists**
 - 1. Equipment Furnished with System
 - 2. Equipment Required But Not Furnished With System
- C. Specifications**
 - 1. Frequency Range
 - 2. Type of Received Signal
 - 3. Signal Sensitivity
 - 4. Input Power
 - 5. Size
 - 6. Weight
- D. Installation**
 - 1. Mounting Racks to Frame
 - 2. Installing Units in Rack
 - 3. Installing Cables

II. CS-3 Dual Rack System

- A. Description of System**
 - 1. Electrical Functions
 - 2. Physical Layout
- B. Equipment Lists**
 - 1. Equipment Furnished with System
 - 2. Equipment Required But Not Furnished With System

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II. CS-3 Dual Rack System (cont.)

C. Specifications

1. Frequency Range
2. Type of Received Signal
3. Signal Sensitivity
4. Input Power
5. Size
6. Weight

D. Installation

1. Mounting Racks to Frame
2. Installing Units in Rack
3. Installing Cables

III. CS-3A Single Rack System

A. Description of System

1. Electrical Functions
2. Physical Layout

B. Equipment Lists

1. Equipment Furnished with System
2. Equipment Required But Not Furnished with System

C. Specifications

1. Frequency Range
2. Type of Received Signal
3. Signal Sensitivity
4. Input Power
5. Size
6. Weight

D. Installation

1. Mounting Racks to Frame
2. Installing Units in Rack
3. Installing Cables

IV. Test Bench Junction Box System

A. Description of System

1. Electrical Functions
2. Physical Layout

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IV. Test Bench Junction Box System (cont.)

B. Equipment Lists

1. Equipment Furnished with System
2. Equipment Required But Not Furnished with System

C. Operation of System

1. Interconnection of Equipment
2. Use of Panel Instrumentation

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September 12, 1957

Re: Contract RD-79, T.O. 7

Dear [redacted]

Please amend our proposal for Phase E of Task Order 7 Contract RD-79 submitted September 10, 1957 as follows:

OUTLINE OF INFORMATION TO BE INCLUDED
IN INSTALLATION MANUAL

Add: I E. [redacted] will furnish information on the minimum requirements necessary to place the equipment in operation and the definition of control functions not otherwise described.

II E. Same as I E.

III E. Same as I E.

Yours very truly,

By [redacted]

TO:

CONFIDENTIAL

(Date)

CONFIDENTIAL

STANDARDIZED RECEIPT FORM FOR USE IN TRANSMITTING "CLASSIFIED" MATERIAL

TO: _____

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RE: Receipt of CLASSIFIED Material

Original to be signed personally by the recipient and returned to sender. 25X1
 Duplicate to be retained by the recipient addressed.
 Triplicate retained by sender for suspense file. 25X1

I have personally received from (sender) 78 _____
 (sender's address) _____
 the CLASSIFIED documents as identified below. I assume full responsibility for the
 safe handling, storage, and transmittal elsewhere of these documents in accordance
 with existing regulations governing the handling of CLASSIFIED material. The
 CLASSIFIED material, including enclosures and attachments, is identified as follows:
 (In identifying CLASSIFIED material, avoid any reference which might cause the
 receipt form to become classified)

Class:-	Description, Nature*(letter, S, C, R :report, Ref.or File No.,etc):	Dated	From	Addressed To	Date
S	1 orig and 1 cc letter dated Sept 10, 1957 from DCP to _____ re TO 7, plus one orig and 1 cc ea - Tech. Info, 2 pgs cost breakdowns	9-10-57	_____	_____	9-10-57

* SO: Signed Original
 CC: Carbon Copy
 PC: Photostat Copy
 TC: Typed Copy

(Signature)9/12/57
(Date)**CONFIDENTIAL**

TO:

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(Date)

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STANDARD FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

TO : Chief, Engineering Division, OC
ATTN : Chief, Research and Development Branch
FROM : Chief, Supplemental Programs Division, OC

SPM 7-630
DATE: 18 September 1957

SUBJECT: (Contract RD-79, Task Order 7)

REF : ENG 7-875

1. The reference covering a change of scope in Phase B of Task Order 7, and a new proposed Phase E of the subject contract, has been examined and found acceptable. The extension of contract completion to December 15, 1957, is acceptable; however, it is requested that the proposed installation manual under Phase E be expedited to enable this Division to correlate it with associated instruction books from other contractors.

2. Additional funds required by , as indicated in the attached proposal, in the amount of \$12,291 are available and may be charged to the 07 category under Allotment #8-7912-50-600.

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Attachment:
Proposal

Distribution:
Orig & 1 w/att - Addressee

DOC	18	REV DATE	9 APR 1960	BY	064540
ORIG COMP	033	OPI	56	TYPE	02
ORIG CLASS	5	PAGES	18	REV CLASS	C
JUST	22	NEXT REV	2010	AUTH:	HR 70-2

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NSB 58-87
23 SEP 1957

Page Denied

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ENG-7-875

13 SEP 1957

Chief, Supplemental Programs Division, OC
 ATTN: Chief, ELINT Activities Branch
 Chief, Engineering Division, OC

Contract RD-79 T.O. 7

1. The attached letter together with associated attachments from [redacted] D.C. outlines the requirement for a change of scope in Phase B of Task Order 7 and a new proposed Phase E of the subject contract.

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2. Our cognizant engineers have carefully reviewed the above mentioned technical information memorandums and consider the proposals fair and reasonable. The change of scope under Phase B has become necessary at this time as the result of numerous requested modifications greatly expanding the overall system from its original concept; to check the final overall performance of a complete system with apparatus recently developed by other contractors; to determine if design deficiencies exist and to make necessary modifications before releasing the systems for field use.

3. The proposed installation manual, when associated with the instruction books furnished by other contractors supplying system units, will provide a clear and effective guide for technical personnel, especially those in a semi-skilled capacity. Furthermore, the contractor has been requested to add a section under III E entitled "Operation". This section intended only to cover the minimum requirements necessary to place the equipment in operation and to define control functions not otherwise described.

4. It is requested that the appropriate allotment number, to cover the request for additional funds, be furnished this Division in order to complete the necessary contractual negotiations as soon as possible. The contractor is ready to proceed on the increased scope and proposed Phase E immediately, and with the completion of this portion of the indicated task, this work may be brought to a close.

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OC-E/R&D-EP/LHG:mjr (12 Sept. 57)
 cc: R&D Subject File
 MSB
 OC-E Chrono
 R&D Chrono
 EP Chrono

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DOC	17	REV DATE	9 APR 1960	BY	064540
ORIG COMP	033	OPI	56	TYPE	02
ORIG CLASS	3	PAGES	1	REV CLASS	S
JUST	22	NEXT REV	2010	AUTH:	HR 10-2

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